

HE TECH



THE AWAKENING OF "THE LOUNGER."

VOLUME XVII.

NUMBER 10.

DECEMBER 9, 1897.



J. C. LITTLEFIELD,
Tailor · and · Outfitter,
21, 23 BEACON STREET, BOSTON.

I can offer you a larger and more complete assortment than can be seen elsewhere, and at lower prices for the same qualities. Look in and examine my prices before placing your order.

GOLF BREECHES, RIDING BREECHES, AND DRESS SUITS A SPECIALTY.
DISCOUNT TO STUDENTS.

OAK GROVE CREAMERY COMPANY,
DAIRY LUNCH ROOM,
445 BOYLSTON STREET, COR. BERKELEY, opp. Y. M. C. A. Building,
 Where can be had Sandwiches of all kinds, Soups, Tea, Coffee, and regular Dairy Lunch.

EVERYTHING FIRST CLASS.

Pure, Fresh-churned Butter, in Quarter-pound Prints, 5 and 10 Pound Boxes. Pure, Fresh Milk and Cream, delivered in Glass Jars. Fresh-laid Eggs. Pure, Full Cream Cheese, American (plain), Sage, Neufchatel and Edam. All kinds of Fruit Ices.

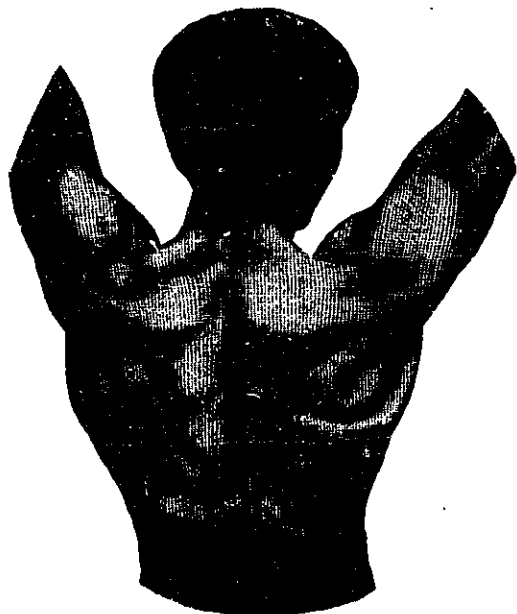
NELSON L. MARTIN.

ALL GOODS REQUIRED BY STUDENTS AT
MACLACHLAN'S

214 CLARENDON STREET.

Fountain Pens, Text Books.

Drawing Instruments and Materials, etc.



...GYMNASIUM...

Physical Training. Keep in Condition by using our Gymnasium.

Boston Young Men's Christian Association

Boylston and Berkeley Streets.

TERMS, \$10.00 PER YEAR.

Including All Other Privileges of the Association.

MEDICAL SUPERVISION.

FINE APPARATUS; CONVENIENT LOCKERS; FREQUENT CLASSES; FREE INSTRUCTION; NEW SHOWER, SPONGE, SPRAY, AND STEAM BATHS; RUNNING TRACK (raised corners). Open 9 A. M. to 10 P. M. MASSAGE DEPARTMENT (services reasonable).

R. J. ROBERTS, Director. GEO. L. MEYLAN, M.D., Medical Director.
N. E. SANDERS, A.B., Assistant Physical Director.

THE FAIRMOUTH,

Cor. West Canton St. and Columbus Ave.

40c. Table d'Hôte.

MENU.

OYSTERS ON HALF SHELL.
 SOUPS — CONSOMME JULIENNE.
 FISH — BOILED CODFISH, EGG SAUCE.
 ENTREES — LAMB SAUTE A LA JARDINIERE.
 ROASTS:
 BEEF. LAMB. PORK.
 STRING BEANS. GREEN PEAS.
 STEWED TOMATOES.
 DESSERTS:
 PIES. PUDDINGS. CHEESE.
 COFFEE OR TEA.
 BOTTLE CIDER, 5 Cents.

STUDENTS' SUPPLIES.

Writing Paper and Envelopes with TECH. Monogram and Imprint.

PERIODICALS AND MAGAZINES.

LAUNDRY AGENCY. Superior quality of Work. We call for and deliver goods.

SOUTHWELL'S,

Corner Dartmouth Street and Columbus Avenue.

Read the Tech Advertisements and Patronize the Advertisers.

W. J. CONKLIN & CO. Apothecaries,

Conklin's Corner, Columbus Ave. and Dartmouth St.

DRUGS.
 CHEMICALS.
 TOILET ARTICLES.
 NOTE PAPERS.
 CANDIES.
 SODA.
 CIGARS.

Specialties.

Albaderma, guaranteed to cure Chapped Skin at one application.
 Conklin's Cough Cure, guaranteed to cure Cough.
 Conklin's Tooth Powder, the Best on the Market.
 Cold Cream.

SUB STATION P. O. No. 17.

Discount to Tech. Students

I. WHITE, Merchant Tailor.

Suits made to order from	-	\$15 to 20
Coats " " " "	-	18 to 25
Pants " " " "	-	4 to 6

Notice.—Specialty on Cleaning, Pressing, and Repairing.

306-A Columbus Avenue, Boston.

E. O. SABINE, Ladies' and Gents' Dining Room

21 MEAL TICKETS, \$5.00.

Nos. 202 and 204 Dartmouth Street.

MISS ALLEN, Private Lessons in Dancing.

"THE COPLEY,"

No. 18 Huntington Avenue.

THE MELROSE DINING ROOMS,

33 ST. BOTOLPH ST.

Opened December 1st, 1897.

Meal Tickets, \$4.00. Transients Accommodated.
 All Home Cooking.

S. B. HARMON & CO.,
 Props. of "The Melrose" House, Brant Rock, Mass.

TRADE MARK

COLLINS & FAIRBANKS
CELEBRATED

SOLE AGENTS
FOR
HENRY HEATH'S AND
A.J. WHITE'S LONDON
HATS

STYLES CORRECT
QUALITY UNEQUALLED

381
WASHINGTON ST. BOSTON



Brooks & Co.
Importing Tailors

15 MILK STREET.
OPPOSITE OLD SOUTH CHURCH.

LONDON OFFICE, 6 SAVILE ROW,

BIRTHPLACE OF FRANKLIN.

BIRTHPLACE 1706

THE LARGEST ASSORTMENT OF FOREIGN WOOLLENS SHOWN IN BOSTON

M. I. T. CO-OPERATIVE.

THE TECH

VOL. XVII.

BOSTON, DECEMBER 9, 1897.

NO. 10.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

JOHN MAGEE, '99, *Editor in Chief*.
MORGAN BARNEY, 1900, *Assistant Editor in Chief*.
THOMAS EDDY TALLMADGE, '98, *Secretary*.
CHARLES-EDWARD AMORY WINSLOW, '98.
GERALD MARTIN RICHMOND, '99.
CLARENCE RENSCHAW, '99.
HARRY LEONARD MORSE, '99.
PAUL RAYMOND BROOKS, 1900.
SULLIVAN WILLIAMS JONES, 1900.

W. R. STRICKLAND, '98, *Business Manager*.
MAURICE DAVENPORT, 1900, { *Assistant Business Managers*.
EDWARD B. COOKE, 1901, }

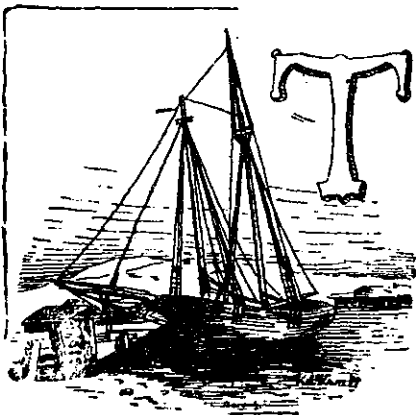
Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

Frank Wood, Printer, 352 Washington Street, Boston.

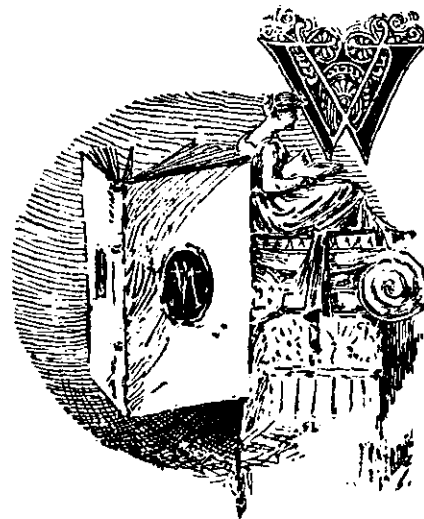
Entered in Post Office, Boston, Mass., as Second Class Matter.



THE action of the Institute Committee in recommending a scheme for Class Day elections to the classes now in the Institute, is a commendable one. The difficulties which

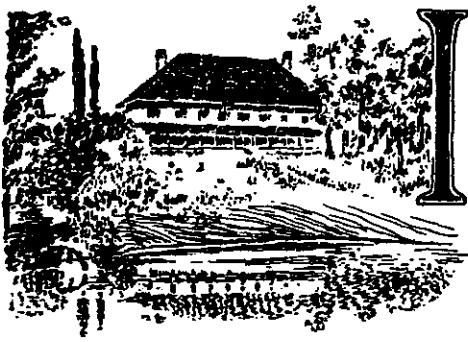
have occurred during the last few years have made an unpleasant reputation for the Institute, gone far to mar the success of several Class Days, and embittered, to many, the memory of what ought to be the year of greatest good-fellowship in the whole college course. The classes now in the Institute, and especially the Senior Class, have an opportunity to prevent these troubles in the future. If the plan of the Institute Committee is adopted by four classes it will be established as a precedent which is not likely to be overthrown. Of course all this effect will be destroyed if the system is amended and altered. We consequently urge upon all the importance

of the adoption of the scheme intact. It has been carefully considered and planned with especial reference to obstacles encountered by other classes; and, if minor details do not please everyone, they should be passed over for the sake of the great good which will accrue from the establishment of a single fixed plan.



WITH the approach of another year, we call together the pleasant memories of the past, and tenderly placing them with those of preceding seasons, resolve to manfully face the future in hope and

cheerfulness. The close of the old year and the opening of the new should not pass altogether unnoticed. For college men the past is worth remembering, and the future seems bright enough to repay us for looking forward. It was with this thought that the little group of Seniors assembled on the steps of Rogers at midnight, nearly a year ago, to greet the year that meant so much to them. It was this feeling, too, that gave rise to the cheering before recitations on the next morning for Technology, for her President, and for her classes. But it is especially fitting that our Senior Class do honor to the year that will mark the closing of their Institute career, and the beginning of their life in the great world of business. THE TECH, therefore, suggests that the Seniors recall those many things that make Tech. dear to them, and welcome the new year on the night of December 31st, by a reception at the Technology Club by '98 to '98.



IT is the current opinion of Technology men that the reason for the activity of the contractors of the new apartment house adjoining the Engineering Building, lies in their desire to get the building well under way lest they be compelled to abandon their project. This is not so. They are hurrying simply to get in the foundation during the good weather. In a recent interview with the contractor the writer was shown the plans and elevations of the new building. The objectionable straight lines and bare walls of the customary sky scraper are not present, and the whole is given a rounding and pleasing effect by the use of bay windows and balconies. It was feared the light in the drawing rooms would be cut off; but as the building above the second floor sets back ten feet from the alley line, and as there is a court in the center of the alley side, the light will not be cut out as much as was feared.



GYMNASIUM work has been made compulsory for the Freshman Class at Yale this year. The course was made optional in 1891, when the new Gymnasium was built, but it has been found, however, that just the men who most need the work have not attended the classes. Yale has, therefore, returned to the compulsory system, which is in force at Amherst, Brown, Cornell, Leland Stanford, Oberlin, University of Ohio, University of Wisconsin, Wesleyan, and Williams, and which is likely to be soon introduced at Columbia. The classes at Yale consist of forty-minute evening recitations held twice a week, and the men are marked indi-

vidually according to their progress in the work, upon the regular scale of marking. The customary cuts and marks will be given to those who absent themselves without sufficient excuse. As in any other course, a satisfactory stand must be maintained or the student will be conditioned.

In comparison with such a highly developed system of physical training our modest demands for decent locker room, sufficient hot water, and yearly physical examination by the Director do not seem unreasonable.

System for Class-Day Elections.

In view of the repeated dissensions which have uniformly marked the election of Class-day officers, the Institute Committee has devoted much consideration to the matter, and desires to offer the following plan, matured after examining the schemes used for several years past, with the hope that it may be adopted by all of the classes now in the Institute, and thus establish a precedent which shall abolish the objectionable features hitherto attendant upon Class-day elections.

G. A. HUTCHINSON, '98,

K. M. BLAKE, '99,

LEWIS STEWART, '00,

REUBEN B. CLARK, '01,

For the Institute Committee.

ARTICLE I.

SECTION 1. The Class shall vote by the Australian Ballot System (or as near to it as practicable), on one day for a Nominating Committee, and on a later day for Class-day Officers and Class-day Committee.

SECT. 2. The Executive Committee of the Class shall decide all matters not provided for in this system.

ARTICLE II.

ELECTION OF NOMINATING COMMITTEE.

The ballots shall contain the names of all members of the Class. Voters shall mark the names of not more than twenty-five. The twenty-five receiving the highest number of votes shall constitute the Nominating Committee. In case of a tie vote all men tied for twenty-fifth place on the Committee shall

be considered members of the Committee. In case of a vacancy in the Committee the next highest candidate shall fill the position.

ARTICLE III.

SECT. 1. The Nominating Committee shall proceed as soon as possible to nominate candidates as follows: for Marshals, at least four; for Orator, Poet, Statistician, Historian, Prophet, at least two for each position; for Class-day Committee, at least eighteen. These nominations must be reported in writing to the Executive Committee of the Class not more than three weeks from the election of the Committee (in this reckoning the period from the beginning of the semi-annual examinations to the beginning of the second term is not included). Eighteen shall constitute a quorum of the Nominating Committee.

SECT. 2. The nominations of the Committee shall be at once posted by the Executive Committee. Additional nominations may be made up till forty-eight hours before the time set for opening the poll on election day, each such additional nomination being signed by twenty-five members of the Class.

SECT. 3. No man shall be a candidate for more than one office.

ARTICLE IV.

SECT. 1. Election day shall be not less than one week after the receipt of the report of the Nominating Committee. From the nominations of the committee and any later nominations the voter shall mark: for Marshals, not more nor less than three; for Orator, Poet, Statistician, Historian, Prophet, one each; for the Class-day Committee, not more than twelve.

SECT. 2. Unless the conditions above be complied with the ballot shall be considered void in so far as the irregularities affect it.

ARTICLE V.

SECT. 1. The candidate receiving the highest number of votes for Marshal shall be First Marshal; the candidate receiving the

second highest number of votes shall be Second Marshal; and the candidate receiving the third highest number of votes shall be Third Marshal. The candidate receiving the highest number of votes for Orator shall be Orator; the same for Poet, Statistician, Historian, and Prophet. The twelve candidates receiving the highest number of votes for Class-day Committee shall be members of the Class-day Committee. In case of a tie vote for any position the Executive Committee of the Class shall decide between the tied candidates; but all men tied for last place on the Class-day Committee shall be considered members of that Committee.

SECT. 2. The First Marshal, Orator, Poet, Statistician, Historian, Prophet, and the President of the Class *ex officio* shall be the Class-day officers. The First Marshal shall be chairman of the Class-day Officers.

SECT. 3. The three Marshals shall be members of the Class-day Committee, *ex officio*. The First Marshal shall be Chairman of the Class-day Committee.



Next Thursday's TECH will be a special Christmas number.

The '97 Class dinner will be held at Young's Saturday, December 18th, at 7.30.

Professor Clifford's course in Photometry began last Tuesday. All intending to take it should consult the schedule.

There will be a reception at the Student House of the Y. M. C. A. to-night. Professor Burton will be the guest of the evening.

The Seniors have begun the study of Constructive Design in Course IV. and are now struggling under the weight of a 40 foot span truss.

Mr. G. G. Heghinian, '99, gave a very interesting talk before the Civil Engineering Society Thursday, December 2d, on the new Union Station.

The introduction of a skating bulletin on one of the boards in Rogers corridor is a good idea. All who know of good skating places should put them on the list.

The bust of President Walker is almost finished. It will be unveiled on the 5th of January, the anniversary of the president's death. The bust will be in bronze, and will be backed by a tablet of marble. The work of erecting the latter has already begun.

The weekly meeting of L'Avenir was held in Room 22, Walker Building, at 4.15 P. M., on Wednesday, December 1st. The report of the Treasurer was read and accepted. President Bertram W. B. Greene gave a very interesting "causerie" upon Paris. The talk was illustrated by stereopticon views.

Prof. Van Daell has invited his class in Special Advanced French, second year, Course IX., to attend his course, in the Lowell Free Lectures, upon the Development of Prose Fiction in France, beginning with the seventeenth century. The course will include twelve lectures, all in the French language.

At a meeting of the Architectural Society, December 1st, the following men were elected to membership: Robinson, '99, Watrous, '99, Abbott, '99, Clausen, '99, Cooper, '00. The Society offers its annual prize of \$10 for the best design to represent the Society in the '99 "Technique." The designs are due February 15th.

On last Friday Mr. M. L. Fuller gave a very interesting and instructive address before the Geological Club on "The Pocket Compass as Used by the Michigan Geological Survey." The next meeting of the Society will

be held this afternoon. Mr. Philip Grabau will read a paper on "The Gorge at Niagara."

Mr. F. Marion Crawford was the guest of the Technology Club on Sunday night, and gave a fascinating sketch of certain incidents of his early life which led to the writing of his first novel, "Mr. Isaacs." The Common Room of the Club was crowded as perhaps never before in its history, the number of '98 men present being particularly noticeable.

A meeting of the Senior Class was held at noon on December 3d. There was considerable debate over the advisability of adopting the proposed amendment to the constitution. It was defeated on the first ballot, however. A communication from the Institute Committee, which is printed elsewhere, was received. The class dinner will be held on December 18th at the Exchange Club.

The Civil Engineering Society visited the new South Union Station last Saturday, at the invitation of Mr. Francis, chief engineer. The party of about seventy-five walked all over the ground and had the special work pointed out. Great progress is being made in the foundation work and before long the great train shed will be set up. The parts most interesting to the men were the coffer dam, the waterproof undercoating of the subway, and the dredging. After the trip the men were shown the plans in Mr. Francis' office.

A meeting of the Freshman Class was held at 1.05 P. M. on Friday, December 3d, by President Clark. An assessment of fifty cents was levied on each member of the class. Mr. Murray was appointed manager *pro tem.* of the Freshman Track team. An amendment to the constitution was made to the effect that appropriations can be made by obtaining the signatures of a majority of the members of the Executive Committee. This will obviate the necessity of calling a meeting of the class whenever it becomes necessary to make an appropriation, as has previously been necessary.

A meeting to organize a Philosophical Society for the discussion of modern Philosophy will be held in Room 26, Rogers, to-morrow, at four. All interested are cordially invited.

We are sorry to announce that Mr. Philip Benson Cooper, 1900, has left the Institute. As president of his class last year, and as a prominent member of our undergraduate life, he will be greatly missed.

At the M. I. T. A. A. Executive Committee Meeting Wednesday, December 8th, the date of the fall meet was changed to December 17th, on account of the Senior dinner.

The Gun Club held an enjoyable shoot at Wellington last Saturday. The best score was 34 of a possible 50, by S. B. Miller, 1900. Regular shoots will be held every other Saturday with a view to entering the inter-collegiate match in the spring.

The next regular meeting of the Society of Arts will be held at the Institute at 8 P. M. to-night. Mr. S. C. Prescott and Mr. W. L. Underwood will present a paper on the contribution to our knowledge of the micro-organism and sterilizing process in the canning industries.

Monday the Course I. Class in Sanitary Engineering was addressed by Mr. Wm. W. Locke, '92, of Course XI., on the subject of garbage disposal in Brooklyn, where he is the Sanitary Engineer. After describing the various plants he presented a plan which has been tried on a small scale in Brooklyn, where entire satisfaction was obtained. The process consists of first drying the garbage to 20 per cent moisture, then burning with some additional coal, a saving of the ammonia by passing the gases through a spray of sulphuric acid, and then burning the remaining gases in a boiler to obtain power.

The Wellesley Concert.

THE Glee, Banjo and Mandolin Clubs gave their annual Wellesley concert in the town hall last Monday evening. The programme

was good, and was received with much applause, especially the Mandolin Club's numbers. All three Clubs were the recipients of flowers. A topical song, by Mr. W. R. Dodge, with the chorus of "Wellesley Belles," made the most decided hit of the evening. The young ladies of Simpson Cottage entertained the Glee Club at a tea and reception from 6 to 8. After the concert the members of the Clubs informally serenaded the inmates of the various college buildings.

The Annual Winter Concert.

THE winter home concert of the Glee, Mandolin and Banjo Clubs came off last evening. Huntington Hall was decorated, and the programmes were tastefully arranged. The work of all the clubs was of the best, and the audience showed their appreciation of this by its demand for encores. The duet of Perry and Addicks, and the topical song by various soloists of the Glee Club, were the special features of the concert; both being very successful. The programme was as follows:—

Part I.

- | | |
|----------------------------------|------------|
| 1. Yachting Glee | Culbertson |
| GLEE CLUB. | |
| 2. La Carmela | Witmark |
| MANDOLIN CLUB. | |
| 3. Up-the-Street March | Morse |
| BANJO CLUB. | |
| 4. Angel Serenade | Braga |
| MR. DODGE AND MANDOLIN CLUB. | |
| 5. The New Couple | Dora Dore |
| GLEE CLUB. | |
| 6. Darktown Patrol | Burr |
| BANJO CLUB. | |

Part II.

- | | |
|----------------------------------|------------|
| 7. Mazourka Cepagnole | Tocaben |
| MANDOLIN CLUB. | |
| 8. A Franklyn's Dogge | Mackenzie |
| GLEE CLUB. | |
| 9. Duett | Selected |
| MESSRS. PERRY AND ADDICKS. | |
| 10. Medley | |
| BANJO CLUB. | |
| 11. La Fiesta | Roucovieri |
| MANDOLIN CLUB. | |
| 12. Selected | |
| GLEE, BANJO, AND MANDOLIN CLUBS. | |

Freshman Themes.

As I was going home I saw a man standing in the road. He was good looking, being perhaps thirty-five or forty years old. Although he did not have on fashionable clothes, he was neatly dressed in serviceable goods. He was gazing intently around and at the sky when I first saw him. After standing there for about fifteen minutes he slowly stooped and picked up an object. He held it up and examined it very carefully for about five minutes. It was rectangular in shape and gray in color. Occasionally he gazed thoughtfully at the ground; finally, with great deliberation, he again stooped. He carefully placed the object down as if it were very delicate and might break. Then after regarding it for some moments in silence, he picked up a hammer which was near by and gave it a tap. He was a street paver.

H. T. C., 1901.

As I sat in Room 45, Rogers, to-day, a downcast-looking Freshman strolled into the room. Without looking to the right or to the left he walked to the side of the room near where I was sitting. I knew by his looks that something rested heavily on his mind. He laid his hat and coat on the table, and with a slow step walked over to the large bulletin which contain the marks in mechanical drawing. Leaning forward, he fixed his eyes on the list of names and began scanning them eagerly. I watched him as he gazed anxiously down the board. As his eyes became fixed on one point his face was suddenly brightened by a broad smile, and he raised his eyes toward heaven as if saying a prayer in thanksgiving. He turned and quickly left the room, quite merry. When he had gone I was anxious to know the cause of his sudden joy, and on looking on the board, beside his name I found that he had received a "P" on his ninth plate.

J. M., 1901.



Correspondence solicited from all who have been connected with the Institute.

'86. Mr. J. Frank Seavy, Course II., is now one of a firm of consulting civil and hydraulic engineers, with office at 95 Milk Street, Boston.

'87. Mr. C. P. Smith, Course II., is a draughtsman in the employ of the Westinghouse Electric and Manufacturing Co., in Wilkesburg, Pa.

'88. Mr. John M. Sully, Course III., at present chief engineer in charge of mines of Chickamauga Coal and Coke Co., has recently accepted the position of superintendent of the Chattanooga and Durham Railroad, with headquarters at Chickamauga, Ga.

'90. Mr. W. B. Poland, Course I., is Assistant Engineer of right of way for the Big Four Railway, with headquarters at Indianapolis, Ind.

'90. Mr. Geo. A. Sonnemann, Course III., has leased the Cumberland Mine, in Silver City, Idaho.

'90. Mr. Samuel Storow is at present the Manager of the Wapiti Mining Company, of Wapiti, Col.

'91. Miss Margaret E. Maltby, Ph.D., Course VIII., has accepted the position of instructor in Physics at the Lake Erie Seminary, of Painesville, Ohio.

'94. Mr. Walter E. Piper, Course V., has been appointed assistant superintendent of one of the factories of the Boston Rubber Shoe Company.

'97. Mr. William B. Hill has taken Mr. Piper's former position as chemist for the Boston Rubber Shoe Co.



The Hare and Hounds run Saturday will be from Wellesley Hills. Watch the bulletin for the train notice.

The battle-ball practice begins this week, and a large number should come out. Besides being interesting the game affords excellent practice for the basket ball which will soon follow.

In one track event, the quarter mile, we have some exceptional men. One has run it in 53 seconds, one in 52 seconds, and one in 51 seconds, the last, at least, without any fifths. This augurs well for our success in relay races.

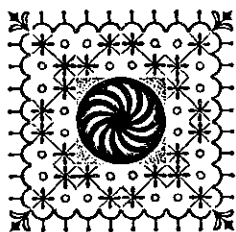
In the first games on the weekly schedule, which were held December 1st, Garret ran the 35-yard low hurdles in 4 3-5 seconds, beating the Tech. record, held by Hurd and Thomas, by 1-5 second. As but one watch was held on this it cannot stand as a record, but the ability of the man is very evident.

The Cross Country run which was to have been run last Saturday was called off, as the weather and the fewness of the entries made anything like an interesting race, or creditable time, impossible. To take the place of this, a run will be held as early as possible in the spring, when a larger and more representative number of contestants will be possible.

It is hoped that with the advisory council there will come in a possibility of sometime obtaining a set of strength-testing machines and a system of anthropometric charts for the Institute Gymnasium. Without the latter, indeed, no modern gymnasium is considered complete. However, it will be time enough to speak of this when we get proper and sufficient bathing facilities.

Shoes

ALL THE POPULAR SHAPES
FOR YOUNG MEN IN



Black,
Tan and
Patent
Leathers.

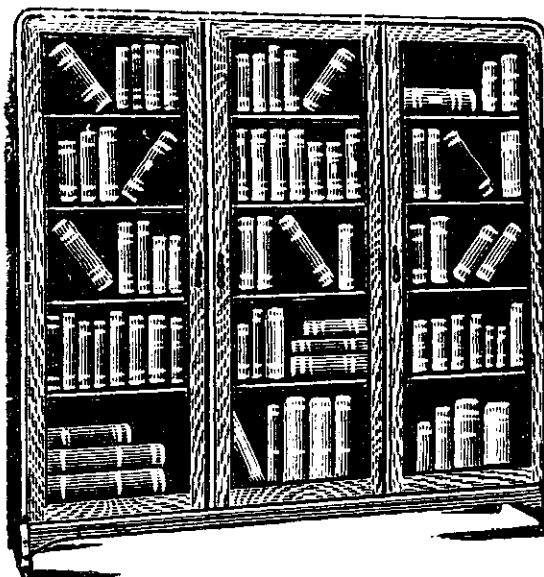
Overshoes of All Kinds.

Prices Reasonable.

Discounts to Students of Technology.

T. E. Moseley & Co.
469 Washington Street.

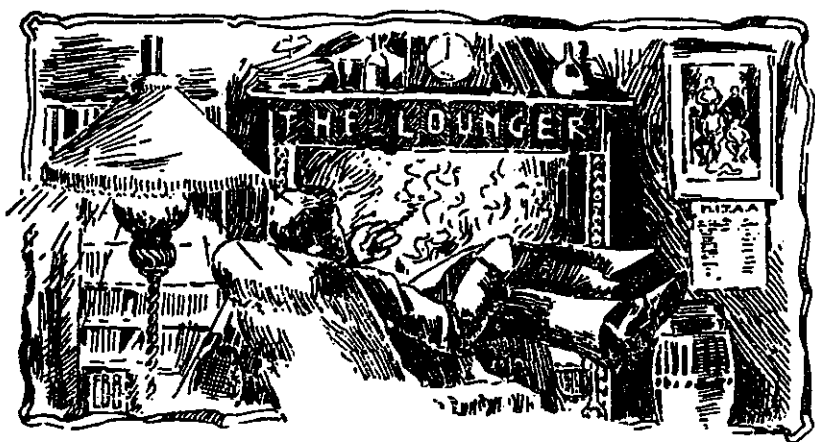
BOOK STORAGE.



As the result of an entire year's study we present this triple compartment, 5-tier, 300-volume cabinet, which we offer at only \$32, in Flemish or Antique oak, or in Mahogany finish on selected birch.

All the shelves are adjustable, and the doors are framed so that the top of the cabinet can be used for books also if desired, bringing up the capacity to about 360 volumes. The compartments are reached by separate locked doors, so that a subdivision of the library is easily arranged. And the price is only \$32.

Paine Furniture Company
48 CANAL STREET, BOSTON.



ALTHOUGH the Lounger is gifted with a calm and equable disposition, yet he is not always gay; like other men he has his moments of pensiveness tinged with mild melancholy. At such times he loves to pick out a few sad, minor chords on the piano, or to peruse the *Harvard Lampoon*. It was while engaged in the latter occupation that he came across the following "Specimen Lecture," purporting to be a typical discourse by a certain instructor of youth across the Charles:—

Gents, in order to write, you'd better have some paper, and ink, and pens. Then you better have something to say. If you can't find anything to say, come to me, and I'll give you something. I never said anything yet in one of my books, so all the ideas I've got, I've got yet.

Gents, having got an idea, use it. Use it until it's worn out, and throw the resulting manuscripts in the fire. Then, when you've worn out the idea, when it is all threadbare, and you are dead sick of it, write it again, and if you are like me, you'll sell the manuscript. I never sold any manuscript until I had worn the idea all out. I used to send lots of manuscript to magazines, but I never sold any, until I got to be an editor. Then I sold manuscript to my own paper, for a thousand dollars a line. Excuse my being personal. . . . Did you ever see my poem to my baby boy? They wanted to print it in the *Youth's Companion*, but I sold it to the *Fireside Companion*, instead, for seventy-five—now don't look so funny—I mean dollars, of course. Well, you may read it for next time, also my novel, "The Phillyloos," and write a report on them.

Is it necessary for any Technology man to be told that the above was headed, "Carlo Bites in English 12?"

The Lounger felt it to be clearly his duty to encourage the cause of Technology athletics by attending the cross-country run last Saturday. He arrived at about three o'clock, in time, as he expected, to see the finish, and to join with the enthusiastic multitude in showering plaudits upon the winner. To his astonishment Exeter Street was deserted, and the

President of the Athletic Association stood alone, with folded arms and impassive countenance, upon the Gymnasium steps, looking like Napoleon at St. Helena. "Is the run over?" cried the Lounger. "No." "Well, where is the throng of palpitating spectators?" "O, some of them have gone away, and some are in the Gym. Only two of them have gone. The other three are in the Gym." "Well, haven't you any officials?" "O, yes; I got an alumnus, an old officer of the Association, to act as timer, and we were going to borrow a stop watch from the Y. M. C. A. for him; he's gone though, too." "Well, but I don't understand. Are you timing the run?" "Well, there isn't any run this afternoon. I called it off." "Called it off? Why?" "O, the weather isn't good." "You didn't give the run up on account of the day being cloudy?" "Well, the official reason I gave was the insufficient number of contestants. You see there were only three men down here, and two of them said they wouldn't run to-day on account of wetting their feet. We can have the run in the spring, you know. The truth is, the boys don't take as much interest in Track athletics just now as they ought." "No," replied the Lounger; "I see they don't."

The Lounger's old friends, the Institute Committee, are stirring vigorously, and the interests of the "undergraduate body at large" are likely to be well attended to. The Lounger must confess to a slight misgiving that our Senators have tackled a rather hefty subject in that of Class-day elections. The promptness with which their scheme has been presented to the Senior Class would be highly commendable,—if it were not for the fact known to a select few that the Committee tried to prepare it for '97, and by being rather less than a year late, came in nicely for '98! If this well-considered and thoroughly matured plan is adopted, the greatest amusement of life at Technology will be done away with. How can Class-day officers be properly selected without the usual opportunity for candidates to test the ductility of wires? How can the voter intelligently distribute his suffrages unless he has been worked up to a thrilling pitch of excitement by denunciations and counter-denunciations, by dark hints of fraternity and non-fraternity rings?

In passing the bulletin board of the Lowell Institute lately, the Lounger noted that "Cannon Cheyne" was to speak on various Biblical subjects. He must be one of the great guns of the season.

TURNER, Tailor,

268 Boylston St., Boston.

(OPPOSITE SUBWAY ENTRANCE.)

Clothing Cleansed, Repaired and
Pressed in a Thorough Manner.

DISCOUNT TO STUDENTS.

Students Will Find SUPERIOR

Drafting Instruments,
Drawing and Blue Process Papers,
Scales, Triangles, Curves,
T Squares, Colors, etc.,

AT THE MANUFACTURERS.

Wadsworth, Howland & Co.,
INCORPORATED,

218 CLARENDON STREET.

Main Office: 82 & 84 Washington St., Boston.

Factories: Malden, Mass.

SPECIAL RATES TO STUDENTS.

SHOES.... for Young Men

New Fall Styles.
Newest Shades.
Newest Shapes.

\$4.00 UP.

Ten Per Cent Discount to Students.

HENRY H. TUTTLE
AND COMPANY.

Corner Washington and Winter Streets,
BOSTON.

Established 1828.

CHAUNCY-HALL SCHOOL

HAS LONG MADE A

SPECIALTY OF PREPARATION FOR
TECHNOLOGY.

REFERENCE is made to the President and Secretary of the
Institute in regard to the thoroughness with which Chauncy-
Hall pupils are fitted, not only for entering the Institute, but
also for pursuing successfully their subsequent work. Prepara-
tion also for business and for college.

Regular Grammar and High-School
Courses, fitting for Business
and for College.

458 Boylston Street, - - Boston, Mass.

(OPPOSITE THE INSTITUTE)

TAYLOR, De MERITTE & HAGAR,
PRINCIPALS.

ALBERT BENARI, Tobacconist,

33 TREMONT STREET, - - BOSTON, MASS.

Agent for the Bohemian Mixture.

FINE LINE OF FRENCH BRIAR PIPES ALWAYS
ON HAND.

WRIGHT & DITSON, New England's Leading Athletic Outfitters,

Offer every requisite in FOOTBALL SUPPLIES, UNI-
FORMS, SHOES, PROTECTORS, SWEATERS, ETC.

Managers should write for samples and special rates before purchasing
THE SPALDING OFFICIAL FOOTBALL.

Adopted by Harvard, Yale, Princeton, Pennsylvania, Cornell, and all
other leading universities. Each ball tested and packed, and sealed in
separate box with brass inflator. Price, \$5.00. Spalding's Official
Football Guide for 1897. Edited by WALTER CAMP. Postpaid, 10 cts.

GYMNASIUM SUITS AND EQUIPMENTS.

Catalogue of Fall and Winter Sports free.

WRIGHT & DITSON,
344 Washington Street, - - BOSTON, MASS.

New Tech Pin.

HENRY GUILD & SON

Have the best Tech Pin yet for 75 cents; also a combi-
nation of gold and silver for \$1.00, and Solid Gold at
\$3.00. For sale at the Institute and

433 Washington St., Boston.

SPECIAL NOVELTIES IN NECKWEAR FOR THE HOLIDAYS

A Fine Full Dress Shirt and Studs to match for \$1.00.

Castle Square Men's Outfitter,

465 Tremont St., opp. Compton, Boston, Mass.

GLASS-DAY INVITATIONS,

BLANK BOOKS, FOUNTAIN PENS,

CAN BE FOUND AT THE CO-OPERATIVE STORE,

H. H. CARTER & CO., 5 Somerset St., near Beacon.

Priest's DINING ROOMS.

No. 102 Dartmouth Street.

.. PRICES ..

Full Ticket, 21 Meals	\$4.00
Breakfast and Dinner, 14 Meals	3.00
Breakfast, 7 Meals	1.50
Mid-day Dinner, 7 Meals	1.20
Dinner, 7 Meals	1.75

ARARAT LUNCH,

351-A Columbus Ave. (near Dartmouth).

All Fruits, Confectionery, Pastry, etc. Very best
lunch at most reasonable prices.

MEAL TICKETS WORTH \$2.30 ONLY \$2.00.

CIGARS AND TOBACCO.

PATRONAGE SOLICITED.

HEADQUARTERS OF TURKISH AND STUDENTS' CIGARETTES.

THE BRUNSWICK BOSTON.

Boylston and Clarendon Streets,

(Adjoining Copley Square)

Near the Museum of Fine Arts,
New Public Library, New Old
South Church, and opposite
Trinity (Phillips Brooks')
Church, and Institute
of Technology.

KEPT ON BOTH AMERICAN AND
EUROPEAN PLANS.

BARNES & DUNKLEE, Proprietors

H. H. BARNES, Manager.



Scientific Books }

DAMRELL & UPHAM,
The Old Corner Bookstore,
283 Washington St., Boston.

MR. CAREY has REMOVED
His Classes in DANCING

TO
Fensmere Hall, 206 Massachusetts Ave.,
Near Corner of Boylston Street.

Bookbinding

IN EVERY STYLE

ALEX. MOORE, 3 School Street, BOSTON.



Week beginning December 13, 1897.

Castle Square Theatre.—The attraction selected for this week will be a production of the romantic drama, "A Celebrated Case," which will be given under the personal direction of Mr. J. R. Pitman, who was identified with the original production in this city some years ago.

Tremont Theatre.—For the last week of his engagement Mr. Willard promises a treat. Monday night he will give the "Rogue's Comedy;" Tuesday evening and Wednesday matinee "The

Middleman;" Wednesday, Thursday and Friday evenings and Saturday matinee "The Professor's Love Story." Saturday, Mr. Willard will appear in three plays to be announced.

Hollis Street Theatre.—"In Town" has taken Boston by storm. It is a brilliant musical farce by prominent authors and is presented by an exceptionally fine company of English artists. Among these are Marie Studholme and Maude Hobson, who have been seen in Boston before.

Boston Museum.—"The Circus Girl" is continuing to play to crowded houses. It is full of such delightful fun and such bright, catchy music that everyone would enjoy it even if it were not given by a company of such thoroughly competent artists as that at the Museum.

Park Theatre.—The latest London novelty and New York success, "The Girl from Paris," will begin the ninth week of its engagement at the Park. It is unusually bright, and is full of spirit.

Boston Theatre.—Last week of Miss Margaret Mather in her magnificent production of "Cymbeline." The cast is long, but is a remarkably strong one, and the scenery is very fine.

Miss Post's School

... FOR ...

INSTRUCTION IN DANCING

At Pierce Hall, Copley Square, will
Reopen in October.

PRIVATE LESSONS A SPECIALTY.

Prospectus forwarded upon application.
Office Hours: 9 till 11, daily.

Good Form

Is required in Wedding and Visiting Cards.
See our styles.

CARD PLATE AND 50 VISITING CARDS, \$1.50.

SAMUEL WARD COMPANY,

49 Franklin Street, Boston.

SIX FLOORS OF STATIONERY.

THE Union Gymnasium

48 BOYLSTON ST. (near Tremont).

PRACTICAL.

Complete
Modern
Apparatus.

Popular
Classes.

Terms,
\$5 and \$8
per Year.



POPULAR.

Extra
Large
Lockers.

Competent
Instructors.

No Extra
Charge
for Instruction

BOSTON YOUNG MEN'S CHRISTIAN UNION.

WM. H. BALDWIN, Pres.

GEORGE PEIRCE, Sec'y.

HIBBARD & MASON

(INCORPORATED)

Tailors,

MUSIC HALL PLACE,

Telephone 579.

Off WINTER STREET.

BOSTON.

DRESS SUITS, SILK LINED, TO ORDER, \$45

Dress Suits to Let.

Furnishing Goods.

...MONARCH SHIRTS...

(THE STANDARD)

In long and short bosoms, full dress, or fancy
bosoms.

Price, \$1.

Latest styles of collars, two for 25 cents.

Exclusive patterns in 50-cent neckwear.

J. H. AYRES, Jr.,

Park Square, opposite Providence Depot.

Mention "Ad" in The Tech.

STUBENRAUCH'S Petite Luncheon.

Enlarged and Refitted.

SPECIALTIES:

Salads and Sandwiches, Delicious Tea and
Coffee, Vienna Ice Cream and Oysters.

SUPERIOR

Chocolates and Bonbons.

Delicious Ice-Cream Soda, Caramels, Old-
Fashioned Molasses Candy, Vienna and
Home-Made Bread, Cake, and Pastry . . .

20, 22, and 24 Park Square.

NEW ENGLAND AGENTS FOR THE
Allegretti Delicious Chocolate Creams.



The Richmond Straight Cut No. 1 Cigarettes.

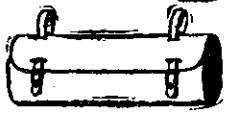
Cigarette Smokers who are willing to pay a little more than the price charged for the ordinary trade cigarettes, will find this brand superior to all others.

These **Cigarettes** are made from the brightest, most delicately flavored, and highest cost **Gold Leaf** grown in Virginia. This is the **Old and Original Brand of Straight Cut** Cigarettes, and was brought out by us in the year 1875.

Beware of imitations, and observe that the firm name as below is on every package.

ALLEN & GINTER
THE AMERICAN TOBACCO CO., SUCCESSOR,
 Manufacturer. **RICHMOND, VIRGINIA**

FOR THE
BICYCLE.



**DON'T RIDE WITHOUT
A REPAIR KIT.** FOR YOU.



POND'S EXTRACT is unequalled for quickly healing all kinds of WOUNDS, BRUISES, LAMENESS or RHEUMATISM.

Rub thoroughly with POND'S EXTRACT after every ride to keep the muscles supple, pliant, strong. Try POND'S EXTRACT OINTMENT for PILES.

AVOID SUBSTITUTES—Weak, Watery, Worthless.
POND'S EXTRACT CO., 76 Fifth Ave., New York.

50 YEARS'
EXPERIENCE

PATENTS

TRADE MARKS
DESIGNS
COPYRIGHTS & C.

Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probably patentable. Communications strictly confidential. Handbook on Patents sent free. Oldest agency for securing patents. Patents taken through Munn & Co. receive special notice, without charge, in the

Scientific American.

A handsomely illustrated weekly. Largest circulation of any scientific journal. Terms, \$3 a year; four months, \$1. Sold by all newsdealers.
MUNN & CO., 361 Broadway, New York
 Branch Office, 625 F St., Washington, D. C.

EXETER CREAMERY,

Dairy Lunch.

Tea, Coffee, Milk, Sandwiches, Rolls,
Pastry, etc.

President,
T. E. TALLMADGE, '98.

Vice Pres. and Bus. Mangr.,
G. C. WINSLOW, '99.

M. I. T. CO-OPERATIVE SOCIETY.

Managed by students of M. I. T.

Proceeds devoted to scholarships.

The Co-operative Supply Rooms

Handle a full line of Drawing Materials and Text-Books at low prices.

A CO-OPERATIVE SOCIETY MEMBERSHIP TICKET entitles the owner to discounts on goods bought from any of the tradesmen in the Society's Handbook.

Established 1843.

Incorporated 1895.

"STUDENTS," ATTENTION!

LARGEST STOCK AND LOWEST PRICES

... ON ...

MATHEMATICAL INSTRUMENTS

AND DRAWING MATERIALS OF ALL KINDS. PICTURE FRAMING A SPECIALTY.

FROST & ADAMS COMPANY,

IMPORTERS AND WHOLESALE DEALERS,

37 CORNHILL, - - - - - BOSTON.

"SPECIAL RATES TO COLLEGES."

NEW ILLUSTRATED CATALOGUE FREE.

A STUDENT

SHOULD ALWAYS LOOK NEAT

Of course the clothes do not make the man, but you know people often judge a man by his appearance. Now, as *Tailors*, it is our business to take care of the outward appearance, and we try to do it well.

A. H. MATZ & CO.,

(Formerly at 431 Columbus Avenue),

347 Columbus Avenue.

(Near Dartmouth.)

CALL AND SEE US

FOR YOUR


MEN'S FURNISHINGS.

Newest Styles. Lowest Prices.

A. COHEN,

329 Columbus Avenue, near Dartmouth Street.

Agency for Cambridge Laundry.



THE F. FLETCHER CO.
COLLEGE OUTFITTERS
158 BOYLSTON ST.
BOSTON MASS.

HATS, CAPS, GLOVES.
 Dress, Fancy and Negligee Shirts to order.
 Very Best Laundry Work.
 Called for and delivered.
 —M. I. T. Discount—

ARCHITECTURAL PHOTOGRAPHS,

The Largest Collection in America.

All the best Public Buildings, Churches, Private Houses, and Business Blocks in Boston and New York. Richardson's Works of Importance from all over New England. Also a complete line of

Art Photographs for Room Decoration.

STUDENTS WELCOME TO EXAMINE, WHETHER DESIRING TO PURCHASE OR NOT.

SOULE PHOTOGRAPH CO., Publishers,

338 Washington Street, Boston.

Elmer Chickering,

The Leading Photographer.

SPECIAL RATES TO STUDENTS.

THERE is not a photographer in New England who has been more successful than Elmer Chickering, of No. 21 West Street, and people who desire to have first-class photographs taken, of themselves, or of their friends, should go to this gallery. His success in the business is wonderful. His pictures are admitted to be exact reproductions of the subject, and are remarkable for their clearness and fidelity in detail. Among his patrons are the leading citizens of the United States, including presidents, governors, mayors, and others prominent in official lines, the highest military officers, the most prominent opera singers, the leading actors and actresses. Far and near his pictures are known. In Europe as well as America they are highly admired. Mr. Chickering is a host in himself, but with good judgment he has surrounded himself with a corps of operators and assistants in his operating rooms who have no superiors, while in his office is to be found young lady attendants who thoroughly understand how to please patrons, and by their uniform courtesy add much to the popularity of "Chickering's Studio."